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TI Manufacture of light-weight hollow wallboard with high strength and low
production cost
IN Wan, Yunzhong
PA Loading and Unloading Service Co., Neijiang Vehicle Section, Peop. Rep.
China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
IC ICM C04B020-00
CC 58-4 (Cement, Concrete, and Related Building Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	<u>CN 1178202</u>	A	19980408	CN 1997-107756	19971103
PRAI	CN 1997-107756		19971103		

AB The wallboard is prep'd. from cement 45-55, expanded material
10-15, fly ash 30-35, gypsum 4-7,
water 40-55 wt.%, and glass fiber. The manuf. process comprises:
mixing cement with gypsum and fly
ash, adding expanded material under stirring, mixing with
water to obtain a micro-foamed slurry (450-560 kg/m³),
pouring the slurry into a mold, laying a layer of glass fiber,
putting a mold core into the mold, adding slurry to 2/3 designed
thickness, laying another layer of glass fiber, adding slurry to
designed thickness, settling for 1-1.5 h, removing the mold core,
de-molding after 4 h, and curing. Preferably, the expanded material is
expanded vermiculite or perlite;.

ST light wt hollow wallboard strength prodn cost; cement light wt
hollow wallboard; expanded vermiculite light wt hollow wallboard; expanded
perlite light wt hollow wallboard; fly ash
gypsum glass fiber wallboard; gypsum fly
ash glass fiber wallboard; glass fiber fly ash
gypsum wallboard

IT Perlite
RL: PEP (Physical, engineering or chemical process); TEM (Technica